

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: HOFFMANN-6

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| In re Application of: |) | |
| FRANK HOFFMANN et al. |) | |
| Appl. No.: 10/567,306 |) | |
| Int. Filing Date: July 15, 2004 |) | Confirmation No.: 4897 |
| For: METHOD FOR CONTROLLED |) | |
| APPLICATION OF A STATOR CURRENT |) | |
| SET POINT VALUE AND OF A TORQUE |) | |
| SET POINT VALUE FOR A CONVERTER- |) | |
| FED ROTATING-FIELD MACHINE |) | |

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the instant specification, in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/007925 and in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 103 36 068.9, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement

after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- ☐ The fee of \$180.00 set forth in 1.17(p).
- ☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

Publication "Direkte Drehmomentregelung von Drehstromantrieben" [Direct torque control for three-phase drives] describes a direct torque control. This direct torque control [DTC] is based on the theories of field-oriented control of asynchronous machines and of direct self-regulation. In the case of direct torque control, the motor and the inverter are largely integrated.

The above-identified application discloses and claims an invention patentable over this prior art. Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By: 

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| Form PTO-1449 | | U.S. Department of Commerce Patent and Trademark Office | | | | |
| INFORMATION DISCLOSURE CITATION | | | | | | |
| Attorney's Docket No. HOFFMANN-6 | Applicant FRANK HOFFMANN et al. | Appl. No. 10/567,306 | | | | |
| Int. Filing Date July 15, 2004 | Group 2839 | Examiner | | | | |
| U.S. PATENT DOCUMENTS | | | | | | |
| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date, if appropriate |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
| | Document Number | Date | Country | Class | Subclass | Translation |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | |
| /NP/ | Horstmann D. et al.: "Die Stromrichternahe Antriebsregelung des Steuergerätes für Bahnautomatisierungssysteme SIBAS 32" [Controller drive control close to the converter for SIBAS 32 railroad automation systems], Elektrische Bahnen, Oldenbourg Verlag, Munich, Germany, vol. 90, no. 11, November 1, 1992, pages 344-350, XP000311285 ISSN: 0013-5437 | | | | | |
| /NP/ | Jänicke M. et al.: "Direkte Selbstregelung, ein neuartiges Regelverfahren für Traktionsantriebe im Ersteinsatz bei dieselektrischen Lokomotiven" [Direct self-regulation, a novel control method for traction drives used for the first time in diesel-electric locomotives], Elektrische Bahnen, Oldenbourg Verlag, Munich, Germany, vol. 89, no. 3, March 1991, pages 79-87, XP000200273 ISSN: 0013-5437 | | | | | |
| /NP/ | Baader U. et al.: "Direct Self Control (DSC) of Inverter-Fed Induction Machine: A Basis for Speed Control without Speed Measurement", May 1, 1992, IEEE Transactions on Industry Applications, IEEE Inc. New York, US, pages 581-588, XP000306107 ISSN: 0093-9994 | | | | | |
| /NP/ | A.M. Llor et al.: "Direct Stator Flux Linkage Control Technique for a Permanent Magnet Synchronous Machine" in Power Electronics Specialist, 2003, PESC '03, IEEE 34 th Annual Conference on, Vol. 1, June 15-19, 2003, pages 246-250 | | | | | |
| /NP/ | "Direkte Selbstregelung (DSR) für hochdynamische Drehfeldantriebe mit Stromrichterspeisung" [Direct self-regulation (DSR) for highly dynamic rotating field drives with a converter feed], M. Depenbrock*, etzArchiv, Vol. 7 (1985), Issue 7, pages 211 to 218 | | | | | |
| /NP/ | "Direkte Drehmomentregelung von Drehstromantrieben" [Direct torque control for three-phase drives], ABB Technik, No. 3, 1995, pages 19 to 24 | | | | | |
| Examiner: /Nicholas Ponomarenko/ (02/08/2010) | | | Date considered: | | | |
| *Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | |